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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,050	12/29/2000	Ravi Subramanian	9824-035-999	8994
24341	7590 11/20/2003		EXAMINER	
Pennie & Edmonds, LLP 3300 Hillview Avenue			BURD, KEVIN MICHAEL	
Palo Alto, CA 94304			ART UNIT	PAPER NUMBER
			2631	
			DATE MAILED: 11/20/2003	· 6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summary	09/752,050	SUBRAMANIAN ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE And	Kevin M Burd	2631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on 7/10/	<u>2001</u> .				
2a) This action is <b>FINAL</b> . 2b) ⊠ This a	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4) ☐ Claim(s) 1-8 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1-8 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on 10 July 2001 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>					
Priority under 35 U.S.C. §§ 119 and 120					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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### Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 3/28/2001 is being considered by the examiner.

### Specification

2. The disclosure is objected to because of the following informalities: page 1 of the specifications discloses a number of patent application titles but the serial numbers of these references are missing as are some of the dates are missing as well. These serial numbers and dates need to be included or the paragraph deleted from the specifications

Appropriate correction is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al (US 4,800,574) in view of Lowe et al (US 6,173,243).

Regarding claims 1 and 6, Tanaka discloses a signal processing apparatus. The modulator/demodulator of this apparatus comprises a first signal processor as shown in

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figure 4, element 300. The first processor comprises a plurality of computation units such as a DAC 116, a filter 112 and an AD converter 218 and filter 204 which are shown in figure 3 (column 5, lines 35-50). The first processor is operable at a first data rate (column 2, lines 40-41). Tanaka further discloses a second processor connected to the first processor and operable at a second rate which is lower than the first rate for performing functions which are to be performed at a relatively low rate (column 2, lines 40-47).

Tanaka does not disclose a test interface for testing the function of the plurality of computation units. Lowe discloses it is important to provide means for testing the proper functionality of the system and to provide fault corrections during system operations (column 1, lines 19-32). It would have been obvious for one of ordinary skill in the art at the time of the invention to incorporate the testing method and components of Lowe in the apparatus of Tanaka. This will increase the reliability and efficiency of any computer system by minimizing or preventing the occurrences of faulty operations (column 1, lines 19-22).

Regarding claims 2 and 7, the combination does not disclose a data sequencer, a configurable logic unit and a dedicated memory. However, these elements are found in all processors so it is inherent the processors the combination would possess these elements.

Regarding claims 3-5 and 8, the modem of Tanaka is capable of receiving voice or data signals as shown in figure 4.

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#### Conclusion

### Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

#### or faxed to:

(703) 872-9314, (for formal communications intended for entry or for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Burd, whose telephone number is (703) 308-7034. The Examiner can normally be reached on Monday-Thursday from 9:00 AM - 6:00 PM.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Kevin M. Burd PATENT EXAMINER

11/12/03

TEMESGHEN GHEBRETIŃSAE PRIMARY EXAMINER